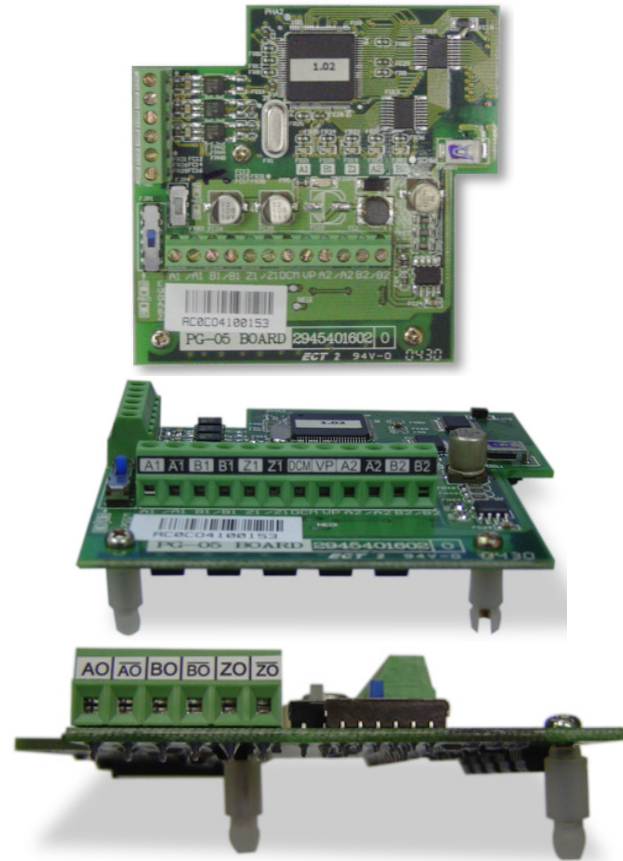


PG-05 Pulse Generator Card for VFD-V Series

Instruction Sheet

1-1 PG-05 Appearance

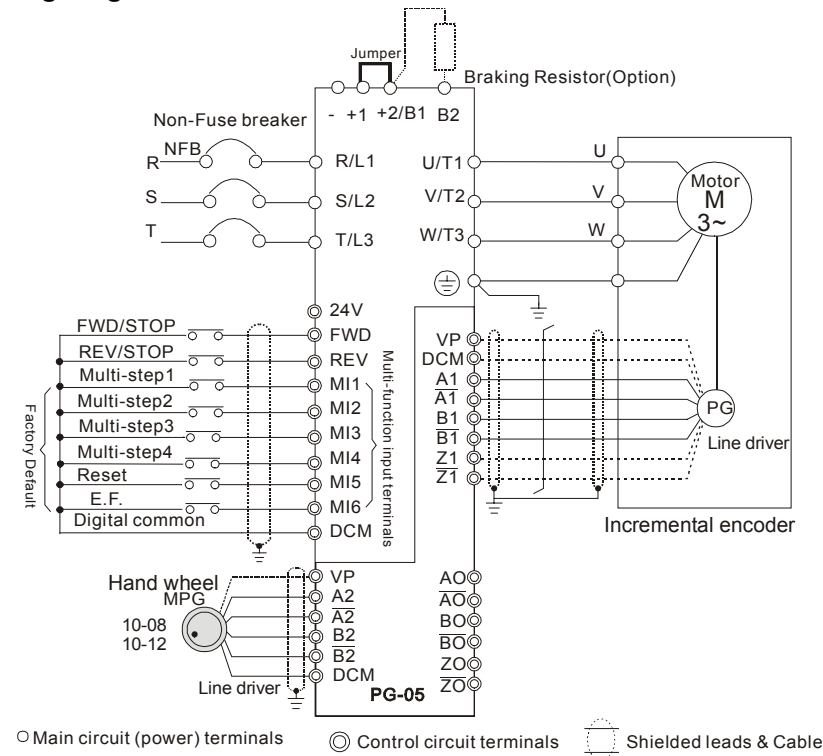


1-2 Explanations of the Terminals of PG-05 Card

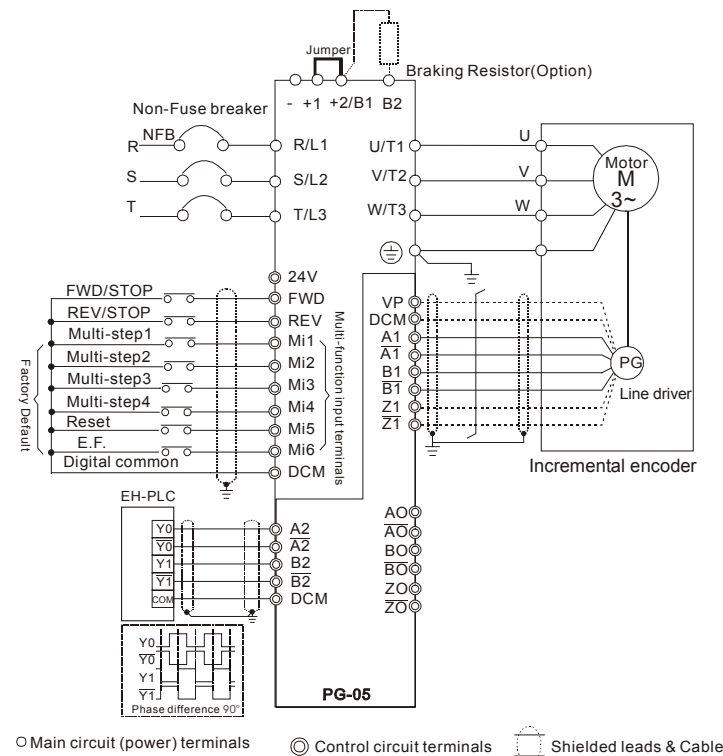
Terminals	Explanation
VP	Output voltage of encoder: +5V±5% 200mA
DCM	Common point of the power supply and the signal
A1, $\overline{A1}$ B1, $\overline{B1}$ Z1, $\overline{Z1}$	The input signal of encoder (select output type of the encoder from FJP1). The power supply can be single-phase or 2-phase. It can be up to 500KP/Sec (max.).
A2, $\overline{A2}$ B2, $\overline{B2}$	Pulse (hand wheel and PLC) input (select input type from FJP4). The power supply can be single-phase or 2-phase. It can be up to 500KP/Sec (max.).
AO, \overline{AO} BO, \overline{BO} ZO, \overline{ZO}	The output signal of encoder can set the dividing frequency by using parameter 10-20. The Max. output of Line drive is 50mA.

1-3 Wiring Examples

Wiring Diagram 1



Wiring Diagram 2

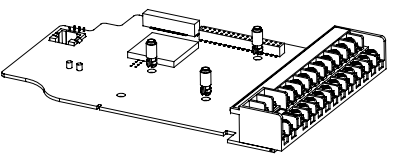
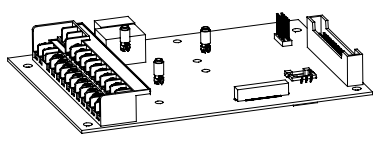
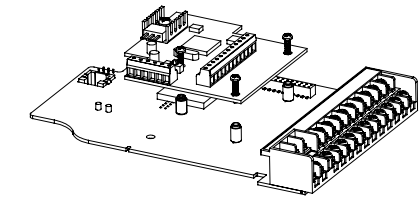
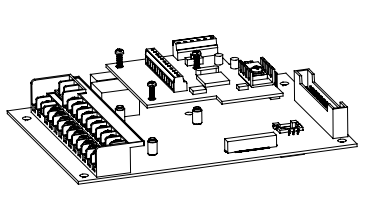


1-4 Wiring Notes

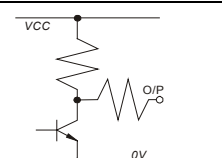

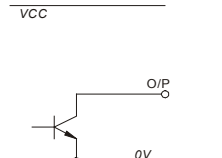

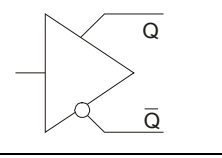

- Using the shielded wire to prevent interference, and do not line up in parallel with circuits of AC200V or above.
- Recommended wire size: 0.21~0.81mm² (AWG24~AWG18).
- Wire length (It is inversely proportional with signal frequency).

The Output Types of the Encoder	Max. Wire Length	Wire Gauge
Voltage	50m	1.25mm ² (AWG18) or above
Open Collector	50m	
Line Driver	300m	1.25mm ² (AWG18) or above
Complementary	70m	

1-5 Installation

For 1-5HP	For 7.5 HP and above
Step 1: Insert 3 PCB supports into control board.	
	
Step 2: Press the PG card on the control board to be fixed to tighten the 3 screws with a torque of 4-6kgf-cm. If the PG card is not fixed on the control board, it may cause screw idle running and cannot turn the screw into supports.	
	

1-6 The Corresponding Output Types of Encoder

Output Types of the Encoder	FJP1	FJP2
Voltage		
Open Collector		
Line Driver		
Complementary	